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Application/Control No.

10/807,836 Examiner

Date

Heather A. Doty

Applicant(s)/Patent under Reexamination

ARANA ET AL.

Art Unit

2813

Rejected Allowed

(Through numeral) Cancelled Restricted

Claim

Non-Elected N Interference

**Appeal** 0 Objected

|          | 1                          |          |          |              |          |  | J                                      |              |            |          |
|----------|----------------------------|----------|----------|--------------|----------|--|--|--------------|------------|----------|
| -        |                            | _        |          |              | _        | 0-4                                    |  |              |            |          |
| Cla      | ım                         |          |          | _            |          | Dat                                    | <u>е</u>                               | _            |            | -        |
| _        | ā                          | 8        |          | l            |          |  | ļ                                      |              |            |          |
| Final    | Original                   | 11/10/05 |          |              |          |  | 1                                      |              |            | - [      |
| ш        | Ö                          | 11       |          |              |          |  |  | l            |            | - 1      |
|          |                            |          |          | <u> </u>     | ┞        | ــــ                                   | ⊢                                      | <u> </u>     | _          | $\dashv$ |
|          | _1_                        | <b>V</b> |          | <u> </u>     | _        | ļ                                      | ┞                                      | <b>!</b>     | Ш          | _        |
|          | 2                          | 1        |          | ļ            | L        | ╄                                      | <u> </u>                               | _            |            |          |
|          | 1<br>2<br>3<br>4<br>5      | 77777    | _        | ļ            | <u> </u> | ┡                                      | _                                      | L            |            |          |
|          | 4                          | 1        |          | L            | ļ.,      | <del> </del>                           | _                                      | <b> </b>     | _          | $\dashv$ |
|          | 5                          | ٧        |          | _            | _        | L                                      | Ļ                                      | <u> </u>     |            | _        |
|          | 6<br>7                     | ٧        |          | <u> </u>     | <u> </u> | _                                      | ــــــــــــــــــــــــــــــــــــــ | <del> </del> |            | Ш        |
|          | 7_                         | 1        |          | <u> </u>     | <u> </u> | _                                      | ┺                                      | <u> </u>     | ļ          |          |
|          | 8                          | 1        | _        | 上            | ┖        | ــــــــــــــــــــــــــــــــــــــ | <u> </u>                               | L            | ┡          | Ш        |
|          | 9                          | 1        | _        | _            | L        | ↓_                                     | 1_                                     | ļ            | _          | Ы        |
|          | 10                         | 1        |          | ļ_           | ļ        | ↓_                                     | 上                                      | <u> </u>     | Ļ          | Ш        |
|          | 11<br>12<br>13             | 1        | <u> </u> | <u> </u>     | _        | 1                                      | 1                                      | ـــ          | -          | Щ        |
| L_       | 12                         | V        | _        | 1            | 1_       | $\perp$                                | 1_                                     | 1            | <b> </b> _ | Ц        |
|          | 13                         | 1        | L        | $oxed{oxed}$ | 1        | 1                                      | <del> </del>                           | 1_           | ⊢          | Ц        |
|          | 14<br>15<br>16             | 1        | L        | $\perp$      | _        | 1                                      | 1_                                     | ╙            | ــــ       | Ш        |
|          | 15                         |          | L        | $\perp$      | 1_       | 1                                      | 1                                      | $\vdash$     | 1_         | Ш        |
|          | 16                         | 1        | _        | 1            | $\perp$  | ļ                                      | $\perp$                                | ↓_           | ↓_         | Ш        |
|          | 17                         | 0        |          | L            |          | 1_                                     | ┸                                      | 1_           | $\perp$    |          |
|          | 18                         | 1        | L        | _            |          | _                                      | 1_                                     | _            | ╙          | Ш        |
|          | 18<br>19<br>20             | V        | L        | <u> </u>     | 1_       | _                                      | _                                      | ┺            | ↓_         | Ш        |
|          | 20                         | 1        | 1_       | ┖            | 1_       | _                                      | 1_                                     | ┺            | ↓_         | Ш        |
|          | 21                         | 11       |          | L            | $\perp$  | $\perp$                                | $\perp$                                | ╀            | <u> </u>   | $\sqcup$ |
|          | 22<br>23<br>24             | 77777    | <u> </u> | ┶            | 4_       | ┺                                      | 4_                                     | $\bot$       | 1          | Щ        |
|          | 23                         | 14       | 1        | _            | ↓_       | -                                      | $\bot$                                 | ╀            | -          | $\vdash$ |
|          | 24                         | ١٧       | ļ.,      | ╄            | ╄        | ╄                                      | ╄                                      | $\vdash$     | ╄          | $\vdash$ |
| -        | 25<br>26                   | 077      | ⊢        | +-           | +        | ╀                                      | +                                      | +-           | ╀          | $\vdash$ |
|          | 26                         | 1        | ╀        | ╀            | ╀        | ╁                                      | +                                      | ┼-           | +          | ╁─┤      |
|          | 27                         | 1        | ╀        | ╀            | ╄        | ╀                                      | ╁                                      | ╀            | ╀          | $\vdash$ |
| -        | 27<br>28<br>29             | ╀        | ╄        | ╀            | ╀        | ╀                                      | +-                                     | ╁            | ╀╌         | $\vdash$ |
| <u> </u> | 29                         | -        | ╄        | ╀            | +-       | +                                      | ┿                                      | ╀            | ╁          | Н        |
|          | 30                         | ┼        | ╀        | -            | ╀        | +                                      | ┿                                      | ╀            | ╁          | $\vdash$ |
| <u> </u> | 31                         | 1        | -        | ╀            | +-       | +                                      | ╀                                      | +            | ╀          | -        |
| <u> </u> | 32                         | +        | -        | +            | +-       | +-                                     | +                                      | +            | +          | $\vdash$ |
| -        | 30<br>31<br>32<br>33<br>34 | $\vdash$ | +        | +            | +-       | +-                                     | +-                                     | +            | ╁          | $\vdash$ |
| -        | 34                         | +        | $\vdash$ | ╀            | +        | +                                      | +                                      | ╁            | +          | $\vdash$ |
| -        | 35<br>36                   | +        | ┼-       | +            | +        | +                                      | +                                      | +            | +          | $\vdash$ |
| <u> </u> | 30                         | +        | ╁        | +            | +        | +                                      | +-                                     | +            | +-         | $\vdash$ |
| -        | 37                         | +        | +-       | ╀            | +        | +                                      | +                                      | +            | +          | +        |
| _        | 38<br>39                   | +-       | +        | +            | +        | +                                      | +-                                     | +            | ┿          | $\vdash$ |
|          |                            | +        | +-       | +            | +        | +-                                     | +                                      | ╁            | +          | +        |
| -        | 40                         | +-       | ╁        | +            | +        | ╁                                      | +                                      | +            | +          |          |
| -        | 41                         | +        | ╁        | +            | +        | +                                      | +                                      | ╁            | ╁          | +        |
| -        | 42                         | +        | ╁        | ╁            | +-       | +                                      | +                                      | +            | +-         | +-       |
| -        | 43                         | +        | +        | +            | ╁        | +                                      | +                                      | +            | +          | +        |
| -        | 45                         | ╁        | ╁        | ╁╴           | +        | +                                      | +-                                     | +            | +          | +        |
| -        | 45                         | ╁╾       | +        | +            | +        | +                                      | +                                      | +            | +          | +        |
| $\vdash$ | 47                         | +        | +-       | +-           | +        | +                                      | +-                                     | +            | +          | +        |
|          | 48                         | ╁        | ╁        | ╁            | ╁        | +-                                     | +                                      | ╁            | +-         | +        |
| -        | 49                         | +        | +        | +            | ╁        | +                                      | +                                      | ╁            | +          | +-       |
| -        | 50                         | +        | +-       | +            | +        | +                                      | ╁                                      | +            | +          | +        |
| <u> </u> | 1 30                       |          |          |              | Ц.       | L_                                     |  |              | —          |          |

| · }- |       |          | _              | _        | _            | _        | $\overline{}$  |              | _            |              | -               |
|------|-------|----------|----------------|----------|--------------|----------|----------------|--------------|--------------|--------------|-----------------|
|      | Final | Original |                |          |              |          |                |              |              |              |                 |
| ŀ    |       | 51       |                | _        | $\vdash$     | $\vdash$ |                |              | _            |              | $\vdash$        |
| ŀ    |       | 52       | _              |          |              |          | $\vdash$       | $\vdash$     | -            |              | $\neg$          |
| ŀ    |       | 53       |                |          |              | ╁        |                | -            | _            | $\vdash$     | Н               |
| ŀ    |       | 54       | _              | _        | $\vdash$     | $\vdash$ | -              | -            | -            |              | H               |
| ŀ    |       | 55       | _              | $\vdash$ | ┢            | $\vdash$ | -              | _            |              | -            | H               |
| ŀ    |       | 56       |                |          | ┢            | $\vdash$ |                | -            | $\vdash$     | -            | $\vdash$        |
| ł    | _     | 57       |                |          | ├            | ╌        | ┢              | -            | $\vdash$     | -            | $\vdash$        |
| ŀ    |       | 58       |                | ⊢        | ╁            | ┢        | ┢              | ┢            | $\vdash$     | ┢            | Н               |
| ŀ    |       | 59       |                | ├-       | $\vdash$     | ╁        | ┼─             | -            | -            | $\vdash$     | Н               |
| ŀ    |       | 60       | _              | ├─       | -            | -        | ┢              | ┢            | $\vdash$     | $\vdash$     | Н               |
| ŀ    |       | 61       | _              | -        | ⊢            | ╁        | ┢              | $\vdash$     | ╌            | -            | Н               |
| ŀ    |       | 62       | _              | -        | -            | ├        | ┢              | ╁            | <del> </del> | -            | $\vdash$        |
| ŀ    |       | 63       | -              | H        | ╁            | -        | -              | ⊢            | -            | ⊢            | Н               |
| ŀ    |       | 64       | -              | -        | ⊢            | ╁        | -              | ├            | -            | -            | Н               |
| ŀ    |       | 65       | -              | ├        | ┾            | ┝        | ╁              | ┼─           | -            | -            | $\vdash$        |
| 1    |       | 66       |                | -        | ╁            | ├        | ⊢              | ├-           | ⊢            | ┝            | $\vdash \vdash$ |
| ŀ    |       | 67       | -              | ₽        | ╁            | ╁        | -              | $\vdash$     | ├            | -            | Н               |
| - }  |       | 68       | ⊢              | ⊢        | -            | $\vdash$ | ┼              | <del> </del> | ┢            | ╁            | $\vdash$        |
| ŀ    |       | 69       | ┝              | ⊢        | ╁            | ╁        | ┼              | H            | ├            | H            | Н               |
| -    |       | 70       | ├              | ╁        | ╀            | ╁╾       | $\vdash$       | ╁╴           | ┝            | ╀╌           | Н               |
| ŀ    |       | 71       | ├              | $\vdash$ | ╫            | ╁        | ╁              | ╁            | ┢            | ╁╌           | Н               |
| ŀ    |       | 72       | -              | $\vdash$ | ╁            | ╁        | ╁              | $\vdash$     | ╁            | ╁            | $\vdash$        |
| ŀ    |       | 72<br>73 | -              | ⊢        | ╁            | +        | +              | ╁╾           | ╁            | ╁╌           | $\vdash$        |
| ŀ    |       | 74       | ├              | ⊢        | ╁╴           | +        | ┼╌             | +            | ╁            | +            | $\vdash$        |
| -    |       | 75       | ┢              | ╁╴       | +            | +        | ╁╌             | ╁            | ╁            | +            | $\vdash$        |
|      |       | 76       | ╁              | ╁        | ╫            | ╁        | ╁              | +-           | +-           | +            | $\vdash$        |
|      |       | 77       | ╁              | ╁        | +            | ╁        | ╁              | t            | +-           | +-           |                 |
| ł    | _     | 78       | ╁╴             | ╁╌       | +            | +        | +-             | ✝            | +-           | ╁            | $\vdash$        |
|      |       | 79       | $\vdash$       | ┢        | ╁╴           | +-       | +              | ╁            | $\vdash$     | ╁╌           | $\vdash$        |
|      |       | 80       | ╁╴             | ╁╌       | +            | ╁╴       | $\dagger$      | +-           | +            | $\vdash$     | t               |
|      |       | 81       | <del>  -</del> | ╁╌       | +            | 十        | +              | +-           | T            | 十            | ✝               |
|      |       | 82       | $\vdash$       | ✝        | ╈            | +        | +-             | +            | $\vdash$     | t            | T               |
|      |       | 83       | 1              | ╁        | +-           | †        | +-             | $\dagger$    | H            | ╁            | $\top$          |
|      |       | 84       | $\vdash$       | $\vdash$ | +-           | $^{+}$   | †-             | 1            | T            | ╁            | $\vdash$        |
|      |       | 85       | $\vdash$       | H        | +            | T        | T              | 1            | $\top$       | +            | $\top$          |
|      | _     | 86       | 1              | t        | ✝            | 1        | $\top$         | †            | T            | 1            | _               |
|      |       | 87       | t              | 1        | $\top$       | $\top$   | T              | 1            | T            |              | $\top$          |
|      |       | 88       | t              | t        | ┪            | +        | T              | T            | $\top$       | 1            | 1               |
|      |       | 89       | 1              | T        | $\top$       | 1        | $\top$         | 1            | $\top$       | T            |                 |
|      | _     | 90       |                | $\top$   | T            | T        | 1              | Τ            | Τ            | Τ            | Τ               |
|      |       | 91       | T              | 1        | 1            |          | T              | $\top$       | 1            | 1            | T               |
|      |       | 92       | 1              | 1        | T            | 1        | 1              |              | T            |              | Ι               |
|      |       | 93       | Γ              | Τ        |              |          |                | Ι            |              | Γ            |                 |
|      |       | 94       | Γ              |          | Τ            | Ι        | $oxed{\Gamma}$ | $oxed{\Box}$ |              |              |                 |
|      |       | 95       |                | Ι        |              |          |                | $\mathbf{I}$ | Ι            | $oxed{\Box}$ |                 |
|      |       | 96       | Γ              | Γ        | $oxed{\Box}$ | $\prod$  | $I^{T}$        | Ι            |              | $\Box$       | $oxed{oxed}$    |
|      |       | 97       |                | Ι        | I            |          | I              |              |              |              |                 |
|      |       | 98       |                | Γ        |              | I        | $\perp$        |              | $\perp$      |              |                 |
|      |       | 99       | oxdot          |          |              | $\perp$  |                |              |              | L            | <u> </u>        |
|      |       | 1        | 1              | 1        |              | -        | 1              | 1            | 1            |              | 1               |

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| Cla          | aim  | Date   |   |          |              |          |          |  | $\neg$   |                |
|--------------|--|--|---|----------|--------------|----------|----------|--|----------|----------------|
|              |  | П  |   |          | Ī            |          |          |  | $\neg$   | ヿ              |
| Final        | Original   |  |   |          |              |          |          |  |          |                |
|              | 101  | $\dashv$   | _ | _        | _            | -        | Н        |  | $\dashv$ | ┪              |
|              | 101<br>102   | $\dashv$   |   | _        |              | _        | Н        |  | $\neg$   |                |
|              | 103  |  | _ | $\vdash$ | $\vdash$     | _        | -        |  | $\dashv$ | $\dashv$       |
|              | 104  |  |   | -        | $\vdash$     |          |          |  | Ħ        | ᅱ              |
|              | 105  |  | _ |          |              | <u> </u> |          |  |          | $\neg$         |
|              | 106  | $\neg$   |   | $\vdash$ | _            |          | $\vdash$ |  |          | ᅥ              |
| -            | 103<br>104<br>105<br>106<br>107                      |  | _ |          | $\vdash$     | $\vdash$ | $\vdash$ | -                                      | $\vdash$ | ヿ              |
|              | 108  | $\neg$   | _ | $\vdash$ | _            | $\vdash$ |          |  |          | $\neg$         |
|              | 109  |  |   |          | $\vdash$     |          |          |  |          | ヿ              |
|              | 110  |  | _ |          |              |          |          |  |          |                |
|              | 111  |  |   |          |              |          |          |  |          | _              |
|              | 112  |  |   | Γ        |              |          |          |  |          |                |
|              | 113  |  |   |          |              | Π        |          |  |          |                |
|              | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116 |  |   |          |              |          |          |  |          |                |
|              | 115  |  |   |          |              |          |          |  |          |                |
|              | 116  |  |   |          |              |          | L        |  |          |                |
|              | 117  |  |   |          |              |          |          |  |          |                |
|              | 117<br>118<br>119                                    |  |   |          |              |          | L        | L                                      |          |                |
|              | 119  |  |   |          |              |          | L        |  |          |                |
|              | 120<br>121   | <u> </u>   |   | 乚        | <u> </u>     | <u> </u> | <u>L</u> | <u> </u>                               |          |                |
|              | 121  |  | _ | <u> </u> | _            | $\perp$  | <u> </u> |  | <u> </u> | Ш              |
|              | 122  |  | L | <u> </u> | _            | ╙        | <u> </u> | <u> </u>                               |          |                |
|              | 123  | _  | _ | L.       | <u> </u>     | ↓_       | ↓_       | ــــــــــــــــــــــــــــــــــــــ | <u> </u> | Щ              |
|              | 122<br>123<br>124                                    | <u> </u>   | _ | _        | ┡            | _        | <u> </u> | ┞                                      | _        |                |
|              | 125  | <del> </del>                                     | _ | <u> </u> | ╄            | ₩        | ├-       | ⊢                                      | ┝        | Ш              |
|              | 126  | -  | _ |          | ┼            | ╀        | -        | ╀                                      | ⊢        |                |
|              | 127  | ┢  | L |          | +            | ╀        | ╀        | ╁                                      | ⊢        | Н              |
|              | 128  | -  | - | -        | ╀            | ╂        | ╀        | ⊢                                      | ╀        | Н              |
|              | 125<br>126<br>127<br>128<br>129<br>130<br>131        | ⊢  | - | ╁        | ╀            | ╁        | ╁        | ╁                                      | ╁        | Н              |
|              | 130  | ₩  | - | ╁        | ╀            | ╀        | ╁        | ⊢                                      | ⊢        | Н              |
|              | 132  | ╁╾   | H | +        | ╁            | ╁        | ╁╾       | ╀╌                                     | ╁        | -              |
|              | 132  | -  | ├ | ╁╌       | ╁            | +        | ╫        | ╁╴                                     | +        | $\vdash$       |
|              | 134  | -  | ┢ | 十        | ╁            | +        | ╁╌       | ╁                                      | $\vdash$ | -              |
|              | 133<br>134<br>135                                    | 1  | - | 1        | +            | ╁        | +        | $\vdash$                               | +        |                |
| <del> </del> | 136  | $\vdash$   | ┢ | +        | +            | +        | +        | 1                                      | +        | -              |
| ├──          | 137  | <del>                                     </del> | T | T        | ╁            | ✝        | †        | 1                                      | $\top$   |                |
|              | 138  | T  | T | 1        | t            | Τ        | T        | T                                      | Т        |                |
|              | 138<br>139   | T  |   | T        | 1            | 1        | $\top$   | $\top$                                 |          |                |
|              | 140  | $\vdash$   |   | Τ        | 1            | Τ        | 1        |  |          |                |
|              | 141  |  |   | T        | 1            | 1        |          |  |          |                |
|              | 142  |  |   | $\Gamma$ | $oxed{\Box}$ |          |          |  |          |                |
|              | 143  |  |   |          | $oxed{\Box}$ |          |          |  |          |                |
|              | 144  |  |   |          | $oxed{\Box}$ | $\perp$  |          |  |          |                |
|              | 145  |  |   |          | L            | $\perp$  |          |  | L        |                |
|              | 146  | L  |   |          | L            |          | 1_       | 1                                      | _        | 1_             |
|              | 147  |  |   |          |              | ┸        | <u> </u> | _                                      | $\perp$  | <u> </u>       |
|              | 148  |  | L | 1        |              | 1        | 1        | 1                                      | 1_       | $oxed{oxed}$   |
|              | 149  |  |   | $\perp$  | $\perp$      | $\perp$  | 1        | 1                                      | ↓        | <del>ا</del> _ |
|              | 150  | $\perp$  | L |          |              | 上        |          | <u> </u>                               |          | L              |